

PRO DEALER



Diagnostic Tools Battery Chargers
Battery Testers Battery Monitors

SYNCHRONIZERS

VacuumMATE

allweather

TS-72



Approved as a recommended tool by Mercury Marine, Honda and Yamaha.

VacuumMate Allweather is the industry standard for fast & accurate synchronizing of up to 4 x carburetor / fuel injection throttle valves on 4 OR 2-stroke engines. Individual manifold pressure is displayed on four vertically arranged bright LED bars (40 LEDs per bar), visible in sunlight. Ideal external or on-board marine use. Pressure is measured by 4x medical grade **Free Scale (Motorola) transducers**.

Fixed resolution accuracy of 0.5cmHg as recommended by motorcycle and outboard marine OEs, with selectable ranges 5-25cmHg, 20-40cmHg, 35 to 55cmHg.

Built in tachometer displays engine idle speed in RPM up to 2000rpm.

DYNAMIC mode to troubleshoot poor engine synchronizing; displays valve sealing differences.

Powered by a rechargeable 7.2V NiMH battery or the vehicle battery (also used to recharge the internal battery).

Includes unique flexi-rigid manifold adapters 4x M5, 4x M6.

Options / kit: Soft canvas carry bag (part no. TS-222). The VacuumMate Marine (part no TS-71) includes the canvas storage bag.

CarbMATE

TS-110



The safe and more accurate replacement for mercury sticks!

CarbMate displays the difference in vacuum intake settings of two separate carburetors (or fuel injection throttle valves) on the same engine, on a single transverse "East-West" 9-LED display. A single green LED at the dead-centre green LED indicates that the compared manifold vacuums are equal to within the selected resolution. Pressure measured by a medical grade **Free Scale (Motorola) transducer**.

Adjustable RESOLUTION from 2cmHg to a very accurate 0.5cmHg.

Powered by the vehicle's 12V battery (or any 12V battery).

Approved as a recommended tool by Rotax aviation's official club ROAN. Special ROTAX kit is available (**Part no. TS-111KIT**).

IGNITION DIAGNOSTICS

IgnitionMATE

TS-90



The power-sport industry's most recommended ignition trouble-shooting tool!

IgnitionMate compares two different signals on 1 cylinder, including primary and secondary ignition signals. Signals are displayed on two bright LED bargraph displays.

No disassembling of ignition components are required, troubleshoot on the vehicle!

Two signals from the same cylinder are compared, including:

Secondary high tension / peak volts – 10, 20, 40 kV scales – use the caliper to measure high voltage between ignition coil and sparkplug. *For stick coils, use included adapter to create a measuring point.*

SPARK current – measures the consistency of the spark current; find / see misfires, or check if 'too lean' mixture is causing unstable spark.

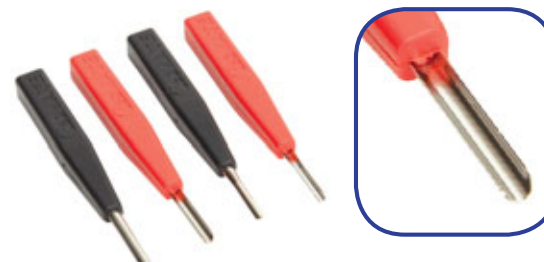
Primary low tension / peak volts – 10, 40 or 400Vpk scales – use the RED & BLACK silicon tester cables and **Probulator** back probes to measure primary signals between the ICU and the power supply (battery or charge coil), timing pick-up (pulse coil or hall sensor), ignition coil and switches (key, emergency stop, footstand, throttle).

Powered by a rechargeable 7.2V NiMH battery or the vehicle battery (also used to recharge the internal battery).

Includes: soft canvas carry/storage bag, 12V charge cable, low volt silicon test leads, set of **Probulator** back probes.

Probulator

TM-99



Electrical troubleshooting made easy!

The **Probulator** backprobe's unique scoop shape is designed to fit into cable or crimp terminal side of electrical in-line or header connectors.

Scoop shape prevents damage to seals.

Small and Large scoop shape for different sized terminal pins.

Accepts 4mm diameter electrical test connector.

Premium TecMate diagnostic tool accessory.

Delivered standard with IgnitionMate (x1 set).

BATTERY CHARGERS

OptiMATE PRO-S

ampmatic

TS-170



Professional battery saving charger for power sport & small engine 12V batteries.

The OEM recommended battery care centre for correct activation of NEW batteries and recovery, charge and testing of neglected sulphated / low-voltage batteries.

NEW mode – 1 hour activation charge only for new batteries that have received acid just prior to charging, such as STD flooded batteries with removable filler caps and AGM-MF 'dry-charged' batteries that are delivered with a separate custom acid pack.

2A/4A mode – 12 hour max. charge mode for diagnoses, recovery, charging, testing of low volt sulphated batteries. Suitable for recharge of all batteries including factory activated sealed AGM batteries (e.g. Yuasa YTZ, GYZ) prior to sale.

Ampmatic – Charge current is automatically adjusted to match battery size and condition.

OptiMATE PRO-4

ampmatic

TS-52



4 x OPTiMATE PRO-S IN ONE!

OptiMate PRO4 is the 4-BANK OEM recommended battery care centre for correct activation of NEW batteries and recovery, charge and testing of neglected sulphated / low-voltage batteries.

4 independent OptiMate PRO-S in one, each with NEW 1-hour activation mode and 2/4A USED battery modes.

Wall mountable, with optional metal galvanized L-bracket (**Part No S-218**).

BATTERY CHARGERS

OptiMATE PRO-8

TS-44



Professional 8-bank battery saving charger for power sport & small engine 6V & 12V batteries

The 8-bank battery care center for recovery, charging and testing of small 6V and 12V batteries, including neglected sulphated / low-voltage batteries.

Selectable charge voltage – Select 6V or 12V per pair of banks.

Fully automatic – Once voltage selection has been made, no further battery knowledge required! Connect up to 8 x 6 and 12V batteries and let the charger do the rest!

Wall mountable, with optional metal galvanized L-bracket (**Part No S-218**).

BATTERY CHARGER & TESTER

BatterymATE

150-9

TS-01



The power sport OEM recommended load tester, power desulphator, charger for all types of 12V lead-acid batteries. BatterymATE has been saving batteries for 25 years!

KEY FEATURES:

Quick new battery activation – Automatically tests battery cranking amps up to 330CCA. True load tester selectable from 15A to 150A.

Powersport specific charging algorithm – 4 step charging method recovers any 12V battery.

Temperature regulated charging

Accurate voltage sensing

Easy to use – 6-position combination selector allows selection of correct test and charge current for connected battery.

BATTERY CHARGERS

Fully automatic multi-bank battery chargers with trusted OptiMate technology - keep new batteries fully charged & ready to sell, or save a customer's neglected battery at the parts counter.

Easy to use, simply hook it up, the charger does the rest.

Separate models for LEAD-ACID and LITHIUM batteries provide the best care for each battery type. No compromises!

SAVE - Multi-step save mode for batteries as low as 2V.

CHARGE - Multi-step charge includes cell balancing OPTIMIZE mode.

TEST - Confirms if battery can hold charge or not.

MAINTAIN - 24-7-365 OptiMate maintenance.

12V 0.8A 3 - 40Ah
7 STEPS 2 BANK AGM GEL STD x2

OptiMate 3 x2 DUAL BANK TM-450

Save-charge-maintain 2 x 12V, each bank independent.



12V 0.8A 3 - 40Ah
7 STEPS 4 BANK AGM GEL STD x4

OptiMate 3 x4 QUAD BANK TM-454

Save-charge-maintain 4 x 12V, each bank independent.



12.8V 0.8A 2 - 30Ah
8 STEPS 4 BANK LITHIUM LFP x4

OptiMate LFP x4 4S 0.8A QUAD BANK TM-484

Prepare / save / maintain LiFePO₄ 12.8V / 13.2V batteries.



BATTERY TESTERS

OptiMate TEST TS-127

State of charge tester - all 12V lead-acid & 12.8V / 13.2V lithium



The smart choice for a battery sales counter - check new batteries before sale or test returned batteries!

Easy to use - Connect clips to the battery and read the result. The OptiMate battery tester's microprocessor draws very low power from the battery itself to determine and display battery status.

Tests all - 12V Lead-acid and 12.8V / 13.2V LiFePO₄ (LFP) Lithium batteries and displays result that can be used to convey information to customer.

OptiMate TEST TS-121

Cranking & Alternator 12V tester for battery state of charge, cranking performance and vehicle charging system.

The ultimate pocket tester for on-vehicle battery performance & alternator voltage testing that every service technician or gear head should have!

Easy to use - Connect clips to the battery or connect to an installed SAE battery lead, then:

1. Check battery charge level
2. Start engine. OptiMate TEST indicates the lowest start volts.
3. With engine running, verify charging voltage from alternator and voltage regulator.



OptiMate TEST TS-130

The OptiMate TEST 12V lead-acid starter battery tester is a dual purpose tester.

It provides at a glance battery charge status information for STD wet-cell and AGM engine start batteries and it confirms if the vehicle charging system is operating correctly.

Connect the clips to the battery and read the result in Volts and percentage (%).



OptiMate monitor

12V LEAD-ACID : STD / AGM / GEL



SAE CHARGE PORT

DUAL MODE:
Storage - Battery's charge level indicated (LED blinks every 3 seconds).

Charge - Confirms vehicle charge system health (Volts > 13.5V).

BATTERY LEAD M6 1/4" L: 60cm 24"

124



18AWG SPT-2W

SAE - SAE Plug and play! L: 15cm 6"

125



AUTO / CIGAR Plug and play!

126 12V Lead-acid



AUTO plug

BATTERY LEAD M8 5/16" L: 100cm 40"

128



OptiMate lithium

BLINK MODE (every 10 seconds)
Indicates battery charge level.

ARROW MODE Indicates ideal charging voltage (engine running). 14.2 - 14.5V

OVERCHARGE WARNING 14.6V and higher



BATTERY LEAD M6 1/4" 12.8V Lithium (LiFePO₄)

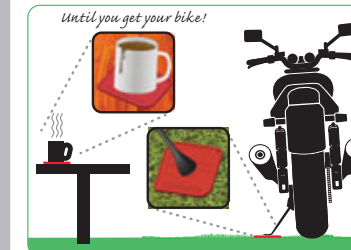
127



SAE

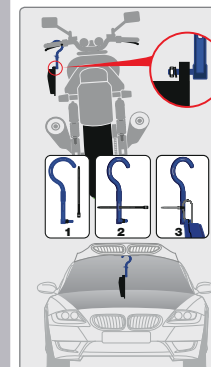


OptiMate PUCK TS-251



Charger HOOK

TS-252



DISPLAYS

Floor Displays & Countertop Displays are available to display consumer chargers & accessories.

FLOOR DISPLAY FREE STANDING 360°.
Vertical panel can be adjusted for single sided / 180° use back against wall).



POINT OF PURCHASE DISPLAY
For Optimate 1 through 6

COUNTERMATS

Vinyl frame with clear overlay to allow inserting up-to-date product sheet.

